Abstract

Switching gas damper for low-voltage power breakers.

The invention relates to a switching gas damper (1) for low-voltage power breakers (2), which is arranged as an attachment above the arcing chambers (6, 7, 8) for additional damping, deionization and cooling of the switching gases. The switching gas damper (1) has a cuboid enclosure with separate inlet openings to receive switching gas flows (3, 4, 5) from each arcing chamber (6, 7, 8) in the low-voltage power breaker (2). Separate outlet channels (17, 21, 23) are formed by channel walls (16, 20) and/or by deflection elements (15, 19) and are routed on both sides of the power breaker (2). A variable arrangement of the deflection elements and outlet channels makes it possible to produce a number of mutually separate flow paths, with different desired damping and cooling characteristics, as a function of the gas amounts that occur and of the characteristics of the arcing chambers that are used.

Figure 1